200100229

No.

Hioneer Hi-Bred International, Inc.

MICIONS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SECLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR USING IT IN UCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY CTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'PH6WR'

In Testimonn Microst, I have hereunto set my hand and caused the seal of the Hint Unriety Protection Office to be affixed at the City of Washington, D.C. this tenth day of April, in the ear two thousand three.

DUREPRODUCE LOCALLY.	Include form numbe	er and date	on all reproductio			ED - OMB NO. 0581-0055			
	EPARTMENT OF AGRICULT			The following statements are mad	in accor	dance with the Privacy Act of			
	GY DIVISION - PLANT VARIE		N OFFICE	(5 U.S.C. 552a) and the Paperwork F	eduction i	Act (PRA) of 1995.			
APPLICATION FOR PLA (Instructions and informa				Application is required in order to certificate is to be issued (7 U.S.C until certificate is issued (7 U.S.C. 2	2421). li	e if a plant variety protection nformation is held confidential			
1. NAME OF OWNER	<del></del>	<del></del>		2. TEMPORARY DESIGNATION OR		3. VARIETY NAME			
Pioneer Hi-Bre	d Internati	onal '	Tna	EXPERIMENTAL NUMBER	1	PH6WR			
4. ADDRESS (Street and No. or RFD N				5. TELEPHONE (Include area code)		FOR OFFICIAL USE ONLY			
7301 NW 62 <sup>nd</sup> .		•				PVPO NUMBER .			
P.O. Box 85				515/270-4051		000100000			
Johnston, IA	50131-0085	;		6. FAX (include area code)	·	200100229			
					-				
				515/253-2125		FILING DATE			
<ol> <li>IF THE OWNER NAMED IS NOT A OF ORGANIZATION (corporation)</li> </ol>			RPORATED, GIVE OF INCORPORATION)	9. DATE OF INCORPORATON		7/26/01			
association, etc.)			•	March 5, 1999	-	1/20101			
Corporation		IOW							
10. NAME AND ADDRESS OF OWNE	R REPRESENTATIVE(S) TO	SERVE IN THIS	APPLICATION (FIRST PE	RSON LISTED WILL RECEIVE ALL PAPERS)	١,	FILING & EXAMINATION			
Steven R. An	derson								
Research and		velopm	ent		1	s \$ 2 700,00			
P.O. Box 85	2200000 20	· ozopan	<b>511 C</b>		1				
Johnston, IA	50131-0085					s			
J J J J J J J J J J J J J J J J J J J		a a				1			
						3/12/200			
11. TELEPHONE (Include area code)	12. FAX (Include area	code)	13. E_MAIL		14. CRC	DE KIND NAME (Common name)			
E15/270 4051	·	•	_		-	•			
515/270-4051	515/253-	2125	Steven.	Anderson@Pioneer.com	60	ORN			
15 GENUS AND SPECIES NAME OF CR	<u> </u>				1				
Zea Mays	OP		16. FAMILY NAME Gramine	•		THE VARIETY A FIRST GENERATION BRID?			
<del>-</del>						Yes 🛛 No			
18. CHECK APPROPRIATE BOX FOR EA	ACH ATTACHMENT SUBMITT	ED (Follow inst	ructions on reverse)	19. DOES THE OWNER SPECIFY THAT CERTIFIED SEED? See Section 83(	SEED OF THI	S VARIETY BE SOLD AS A CLASS OF			
<u> </u>	eding History of the Variety				_	- variety Protection Act;			
b. Exhibit B. Statement of D				YES (if "yes", answer item and 21 below)	s 20	NO (If "no", go to item 22)			
c. Exhibit C. Objective Desc	•			20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO					
_	cription of the Variety <i>(Optic</i> ne Basis of the Owner's Own			NUMBER OF GENERATIONS?					
f. Voucher Sample (2500 vi.		•	ul variaties	YES NO					
verification that tissue co repository)	ilture will be deposited and	maintained in a	approved public	21. IF "YES" TO ITEM 20, WHICH CLASS	ES OF PROD	UCTION BEYOND BREEDER SEED?			
g.	e (\$2,450), made payable to	"Treasurer of t	ne United States" (Mail to		_	CERTIFIED			
22. HAS THE VARIETY (INCLUDING AN				23. IS THE VARIETY OR ANY COMPONE	NT OF THE V	ADIETY DEOTECTED BY			
VARIETY BEEN SOLD, DISPOSED (	OF, TRANSFERRED, OR USE	D IN THE U.S. (	OR OTHER COUNTRIES?						
YES NO				☐ YES 🖾 NO					
IF YES, YOU MUST PROVIDE THE DE EACH COUNTRY AND THE CIRCUM				IF YES, PLEASE GIVE COUNTRY, DA	TE OF FILING	OR ISSUANCE AND ASSIGNED			
EACH COUNTY AND THE CIRCUM	ormoco. (riesse use spac	e mulcated on	reverse;	REFERENCE NUMBER. (Please use	space Indica	ted on reverse.)			
	•								
24. The owner(s) declare that a viable sa	mple of basic seed of the va	rioty will be fur	rished with application a	nd will be replenished upon request in accordance	with each re	gulations as may be applicable, or			
for a tuber propagated variety a tissu					Will Such le	Beigrious as they be applicable,			
The undersigned owner(s) is(are) the	owner of this sexually repre	oduced or tuber	propagated plant variety	y, and believe(s) that the variety is new, distinct, u	ilform, and st	able as required in			
Section 42, and is entitled to protect	•		•						
Owner(s) Is(are) informed that false re SIGNATURE OF OWNER	epresentauon herein can jeo	pardize protect	on and results in penalti	SIGNATURE OF OWNER					
				Sto KM	lesso	<b>-</b>			
NAME (Please print or type)				NAME (Please print or type)	uvo				
				Steven R. Anderson					
CAPACITY OR TITLE		DATE		CAPACITY OR TITLE		DATE			
				Research Scientist		7-25-01			
S&T-470 (08-98DESIGNED BY THE DISS.	Variety Protection Office wi	th WordPortoct	6 Da. Renlance STD-475	(03-96) which is obsolete. (See reverse for instru	chinas as I 2-4	, , , –			
1				. ,, minori io obsoleto.     (See reverse jut instri	········ ### 17[]	ormation consciion distassi			

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in a approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filling fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant 'Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent,

> Plant Variety Protection Office Telephone: (301)504-5518 FAX: (301)504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a.

- the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- the details of subsequent stages of selection and multiplication;
- evidence of uniformity and stability; and
- the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - submit, if helpful, seed and plant specimens of photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as 18c. possible to describe your variety.
- Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use 18d. comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant disease
- 18e. Section 52(5) of the Act required applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, applicant may change the choice. (See Regulations and Rules of Practice, Section 7.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the 22. variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

United States, 11/01/2000

CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).

NOTES; It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of Information is estimated to average 30 minutes per response, including the time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate of any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2731. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (valies) or (202) 730-1137 (TOD). USDA (see a gual employment computative means). (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

# Exhibit A. Origin and Breeding History

Pedigree: PH05H/PHPP8)X5511X

Pioneer Line PH6WR, Zea mays L., a dent corn inbred, was developed by Pioneer Hi-Bred International, Inc. from the single cross hybrid PH05H X PHPP8 (PVP Certificate No. 9500213) using the pedigree method of plant breeding. Varieties PH05H and PHPP8 are proprietary inbred lines of Pioneer Hi-Bred International, Inc. Selfing was practiced from the above hybrid for 6 generations using pedigree selection. During line development, crosses were made to inbred testers for the purpose of estimating the line's combining ability. Yield trials were grown at Macomb, Illinois as well as other Pioneer research locations. After initial testing, additional hybrid combinations have been evaluated and subsequent generations of the line have been grown and hand-pollinated with observations again made for uniformity. Variety PH05H was derived by pedigree selection from the single cross hybrid PHN10 X PHR03 (PVP Certificate No. 9100097). Variety PHN10 was derived by pedigree selection from a single cross hybrid G50 (PVP Certificate No. 8300143) X a variety derived from material tracing back primarily to Far South Open Pollinated, and SRS303, I205, IDT, Troyer Reid, MINN49 and IDT.

Variety PH6WR has shown uniformity and stability for all traits as described in Exhibit C - "Objective Description of Variety". It has been self-pollinated and ear-rowed 4 generations with careful attention paid to selection criteria and uniformity of plant type to assure genetic homozygousity and phenotypic stability. The line has been increased both by hand and in isolated fields with continued observations for uniformity and stability, and for 3 generations during the final stages of inbred development and seed multiplication. Very high standards for genetic purity have been established morphologically using field observations and electrophoretically using sound lab molecular marker methodology.

No variant traits have been observed or are expected in PH6WR.

The criteria used in the selection of PH6WR were yield, both per se and in hybrid combinations; early growth, late season plant health, grain quality, stalk lodging resistance, and kernel size, especially important in production. Other selection criteria include: ability to germinate in adverse conditions; number of tillers, especially important in production because having numerous tillers increases hybrid production costs spent on detasseling; disease and insect resistance; pollen yield and tassel size.

Appendix A (cont.)
Exhibit A: Developmental history for PH6WR

Season/Year Pedigree Grown	Inbreeding Level of Pedigree Grown
1994 summer	
PH05H, PHPP8	F0
FROM, FREE	FU
1994 WINTER	
PH05H/PHPP8	F1
1995 SUMMER	
PH05H/PHPP8)X	F2
1996 WINTER	
PH05H /PHPP8)X5	F3
1997 SUMMER	
PH05H /PHPP8X55	F4
1997 WINTER	
PH05H /PHPP8)X551	F5
1998 SUMMER	
PH05H /PHPP8)X5511	F6
Seed	
PH05H/ PHPP8)X5511X	F7
1	::

<sup>\*</sup>PH6WR was selfed and ear-rowed from F3 through F6 generation.
#Uniformity and stability were established from F5 through F7 generation and beyond when seed supplies were increased.

## Exhibit B. Novelty Statement

Variety PH6WR mostly resembles Pioneer Hi-Bred International, Inc. proprietary inbred line PHPP8 (PVP Certificate No. 9500213). The data in Table 1A and 1B are from t-tests collected from two environments in Johnston, IA. and one environment in Ankeny, IA.

Variety PH6WR has a shorter husk length (19.9 cm vs 22.5 cm) than PHPP8 (Table 1A, 1B).

Variety PH6WR has a shorter leaf length (78.9 cm vs 88.7 cm) than PHPP8 (Table 1A, 1B).

Variety PH6WR has a shorter plant height (207.8 cm vs 238.3 cm) than PHPP8 (Table 1A, 1B).

Variety PH6WR has a shorter tassel central spike length (22.5 cm vs 26.3 cm) than PHPP8 (Table 1A, 1B).

Variety PH6WR has a shorter tassel length (52.2 cm vs 65.8 cm) than PHPP8 (Table 1A, 1B).

Variety PH6WR has a shorter tassel peduncle length (19.1 cm vs 26.6 cm) than PHPP8 (Table 1A, 1B).

'xhibit B Novelty Statement Tables

'able 1A. Data from the Johnston, IA. area (AD and JH) and Ankeny, IA. (IT) in 2000 are supporting evidence for differences between PH6WR nd PHPP8. A t-test was performed and broken out by environment.

Prob_(2-	tail) Pool	ا م	<b>}</b>		0.013	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.032		0.001		0.016		0.001	0.000	0.001	0.013		0.001		0.000
	Value				-3.16	-13.88	-4.75	-9.15	-6.68	-7.87	-7.64	-5.53	-6.02	-2.59		-5.29		-3.05		-5.27	-9.18	-5.53	-3.20		-5.11		-7.00
DF_Pooled					æ	æ	8	8	8	æ	æ	œ	80	ω		8		80		ω	8	ω	8		8		8
StdError	7				0.316	0.245	0.374	0.374	1.114	1.319	3.774	3.184	2.581	0.632		0.812		0.812		1.749	0.927	1.691	1.960		1.470		0.707
StdDev StdError StdError	<u> </u>				0.548	0.000	0.400	0.980	0.583	0.600	1.691	3.655	4.833	0.678		0.735		0.663		2.200	1.265	1.241	0.970		0.735		0.707
StdDev :	?				0.707	0.548	0.837	0.837	2.490	2.950	8.438	7.120	5.771	1.414		1.817		1.817		3.912	2.074	3.782	4.382		3.286		1.581
StdDev	T				1.225	0.000	0.894	2.191		1.342	3.782	8.173	10.807	1.517		1.643		1.483		4.919	2.828	2.775	2.168		1.643		1.581
Count- Mean- Mean- Mean_Di	<b>#</b> =				-2.0	-3.4	-2.6	-9.6	-8.4	-11.4	-31.6	-26.8	-33.0	-2.4		-5.8		-3.2		-14.8	-14.4	-11.6	-7.0		-8.4		-7.0
Mean-	7				22.0	23.4	22.2	90.2	87.2	88.8	243.2	241.2	230.4	25.0		27.6		26.4		65.6	70.4	61.4	27.2		30.6		22.0
- Mean-	•				20.0	20.0	19.6	80.6	78.8	77.4	211.6	214.4	197.4	22.6		21.8		23.2		50.8	26.0	49.8	20.2		22.2		15.0
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year station variety- variety- Count-	<u>.</u>				PH6WR	PH6WR	PH6WR	PH6WR	PH6WR	PH6WR	PH6WR	PH6WF	PH6WR	PH6WF		PH6WF		PH6WF		PH6WF	PH6WF	PH6WF	PH6WF		PH6WF		PH6WF
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**Exhibit B Novelty Statement Tables** 

Table 1B. Summary data across environments in 2000 are supporting evidence for differences between PH6WR and PHPP8. A t-test was reformed across environments in 2000.

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StdDev-2 StdError- StdError- DF_Pooled t-value Prob_(2- 1 2 Pooled tail)_Pooled ed								
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StdDev-1	0.834	2.052	0.765	1.552		4.395	3.563	
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### **DEFINITIONS**

In the description and examples, a number of terms are used herein. In order to provide a clear and consistent understanding of the specification and claims, including the scope to be given such terms, the following definitions are provided:

**ANT ROT** = **ANTHRACNOSE STALK ROT** (Colletotrichum graminicola).

A 1 to 9 visual rating indicating the resistance to Anthracnose Stalk Rot. A higher score indicates a higher resistance.

BAR PLT = BARREN PLANTS.

The percent of plants per plot that were not barren (lack ears).

BRT STK = BRITTLE STALKS.

This is a measure of the stalk breakage near the time of pollination, and is an indication of whether a hybrid or inbred would snap or break near the time of flowering under severe winds. Data are presented as percentage of plants that did not snap.

BU ACR = YIELD (BUSHELS/ACRE).

Yield of the grain at harvest in bushels per acre adjusted to 15.5% moisture.

CLD TST = COLD TEST.

The percent of plants that germinate under cold test conditions.

CLN = CORN LETHAL NECROSIS.

Synergistic interaction of maize chlorotic mottle virus (MCMV) in combination with either maize dwarf mosaic virus (MDMV-A or MDMV-B) or wheat streak mosaic virus (WSMV). A 1 to 9 visual rating indicating the resistance to Corn Lethal Necrosis. A higher score indicates a higher resistance.

**COM RST** = **COMMON RUST** (*Puccinia sorghi*).

A 1 to 9 visual rating indicating the resistance to Common Rust. A higher score indicates a higher resistance.

**DIP ERS** = **DIPLODIA EAR MOLD SCORES** (Diplodia maydis and Diplodia macrospora).

A 1 to 9 visual rating indicating the resistance to Diplodia Ear Mold. A higher score indicates a higher resistance.

DRP EAR = DROPPED EARS.

A measure of the number of dropped ears per plot and represents the percentage of plants that did not drop ears prior to harvest.

EAR HT = EAR HEIGHT.

The ear height is a measure from the ground to the highest placed developed ear node attachment and is measured in cm.

EAR MLD = GENERAL EAR MOLD.

Visual rating (1-9 score) where a "1" is very susceptible and a "9" is very resistant. This is based on overall rating for ear mold of mature ears without determining the specific mold organism, and may not be predictive for a specific ear mold.

EAR SZ = EAR SIZE.

A 1 to 9 visual rating of ear size. The higher the rating the larger the ear size.

ECB 1LF = EUROPEAN CORN BORER FIRST GENERATION LEAF FEEDING (Ostrinia nubilalis).

A 1 to 9 visual rating indicating the resistance to preflowering leaf feeding by first generation European Corn Borer. A higher score indicates a higher resistance.

ECB 2IT = EUROPEAN CORN BORER SECOND GENERATION INCHES OF TUNNELING (Ostrinia nubilalis).

Average inches of tunneling per plant in the stalk.

ECB 2SC = EUROPEAN CORN BORER SECOND GENERATION (Ostrinia nubilalis).

A 1 to 9 visual rating indicating post flowering degree of stalk breakage and

other evidence of feeding by European Corn Borer, Second Generation. A higher score indicates a higher resistance.

ECB DPE = EUROPEAN CORN BORER DROPPED EARS (Ostrinia nubilalis).

Dropped ears due to European Corn Borer. Percentage of plants that did not drop ears under second generation corn borer infestation.

EGRWTH = EARLY GROWTH.

This is the visual rating (1 to 9) of the amount of vegetative growth after emergence at the seedling stage (approximately five leaves). A higher score indicates better vigor or early season growth.

EST CNT = EARLY STAND COUNT.

This is a measure of the stand establishment in the spring and represents the number of plants that emerge on per plot basis for the inbred or hybrid.

EYE SPT = EYE SPOT (Kabatiella zeae or Aureobasidium zeae).

A 1 to 9 visual rating indicating the resistance to Eye Spot. A higher score indicates a higher resistance.

FUS ERS = FUSARIUM EAR ROT SCORE. (Fusarium moniliforme or Fusarium subglutinans).

A 1 to 9 visual rating indicating the resistance to Fusarium ear rot. A higher score indicates a higher resistance.

GDU = GROWING DEGREE UNITS.

Using the Barger Heat Unit Theory, which assumes that maize growth occurs in the temperature range 50°F - 86°F and that temperatures outside this range slow down growth; the maximum daily heat unit accumulation is 36 and the minimum daily heat unit accumulation is 0. The seasonal accumulation of GDU is a major factor in determining maturity zones.

GDU SHD = GDU TO SHED.

The number of growing degree units (GDUs) or heat units required for an inbred line or hybrid to have approximately 50 percent of the plants shedding pollen and is measured from the time of planting. Growing degree units are calculated by the Barger Method, where the heat units for a 24-hour period are:

GDU = (Max. Temp. + Min. temp.) - 50/2

The highest maximum temperature used is 86° F. and the lowest minimum temperature used is 50°F. For each inbred or hybrid it takes a certain number of GDUs to reach various stages of plant development.

GDU SLK = GDU TO SILK.

The number of growing degree units required for an inbred line or hybrid to have approximately 50 percent of the plants with silk emergence from time of planting. Growing degree units are calculated by the Barger Method as given in GDU SHD definition.

GIBERS = GIBBERELLA EAR ROT (PINK MOLD) (Gibberella zeae).

A 1 to 9 visual rating indicating the resistance to Gibberella Ear Rot. A higher score indicates a higher resistance.

GLF SPT = GRAY LEAF SPOT (Cercospora zeae-maydis).

A 1 to 9 visual rating indicating the resistance to Gray Leaf Spot. A higher score indicates a higher resistance.

GOS WLT = GOSS' WILT (Corynebacterium nebraskense).

A 1 to 9 visual rating indicating the resistance to Goss' Wilt. A higher score indicates a higher resistance.

**GRN APP** = **GRAIN APPEARANCE.** 

This is a 1 to 9 rating for the general appearance of the shelled grain as it is harvested based on such factors as the color of harvested grain, any mold on the grain, and any cracked grain. High scores indicate good grain quality.

HC BLT = HELMINTHOSPORIUM CARBONUM LEAF BLIGHT (Helminthosporium carbonum).

A 1 to 9 visual rating indicating the resistance to Helminthosporium infection. A higher score indicates a higher resistance.

**HD SMT** = **HEAD SMUT** (Sphacelotheca reiliana).

This score indicates the percentage of plants not infected.

**KER KG** = **KERNELS PER KILOGRAM.** 

The number of kernels per 1 kilogram of seed after discard is removed.

KSZ DCD = KERNEL SIZE DISCARD.

The percent of discard seed; calculated as the sum of discarded tip kernels and extra large kernels.

MDM CPX = MAIZE DWARF MOSAIC COMPLEX (MDMV = Maize Dwarf Mosaic

Virus and MCDV = Maize Chlorotic Dwarf Virus).

A 1 to 9 visual rating indicating the resistance to Maize Dwarf Mosaic Complex. A higher score indicates a higher resistance.

MST = HARVEST MOISTURE.

The moisture is the actual percentage moisture of the grain at harvest.

NLF BLT = NORTHERN LEAF BLIGHT (Helminthosporium turcicum or Exserohilum turcicum).

A 1 to 9 visual rating indicating the resistance to Northern Leaf Blight. A higher score indicates a higher resistance.

PLT HT = PLANT HEIGHT.

This is a measure of the height of the plant from the ground to the tip of the tassel in cm.

POL SC = POLLEN SCORE.

A 1 to 9 visual rating indicating the amount of pollen shed. The higher the score the more pollen shed.

POL WT = POLLEN WEIGHT.

This is calculated by dry weight of tassels collected as shedding commences minus dry weight from similar tassels harvested after shedding is complete.

PRM = PREDICTED RELATIVE MATURITY.

This trait, predicted relative maturity, is based on the harvest moisture of the grain. The relative maturity rating is based on a known set of checks and utilizes standard linear regression analyses and is also referred to as the Comparative Relative Maturity Rating System that is similar to the Minnesota Relative Maturity Rating System.

PRM SHD = PREDICTED RELATIVE MATURITY GDU TO SHED.

A relative measure of the growing degree units (GDU) required to reach 50% pollen shed. Relative values are predicted values from the linear regression of observed GDU's on relative maturity of commercial checks.

RT LDG = ROOT LODGING.

Root lodging is the percentage of plants that do not root lodge; plants that lean from the vertical axis at an approximately 30° angle or greater would be counted as root lodged.

SCT GRN = SCATTER GRAIN.

A 1 to 9 visual rating indicating the amount of scatter grain (lack of pollination or kernel abortion) on the ear. The higher the score the less scatter grain.

**SEL IND** = **SELECTION INDEX.** 

The selection index gives a single measure of the hybrid's worth based on information for up to five traits. A maize breeder may utilize his or her own set of traits for the selection index. One of the traits that is almost always included is yield. When selection index data is presented, the tables represent the mean value averaged across testing stations.

SLF BLT = SOUTHERN LEAF BLIGHT (Helminthosporium maydis or Bipolaris maydis).

A 1 to 9 visual rating indicating the resistance to Southern Leaf Blight. A higher

score indicates a higher resistance.

**SOU RST** = **SOUTHERN RUST** (*Puccinia polysora*).

A 1 to 9 visual rating indicating the resistance to Southern Rust. A higher score indicates a higher resistance.

STAGRN = STAYGREEN.

Staygreen is the measure of plant health near the time of black layer formation (physiological maturity). A high score indicates better late-season plant health.

STK CNT = NUMBER OF PLANTS.

This is the final stand or number of plants per plot.

STK LDG. = STALK LODGING.

This is the percentage of plants that did not stalk lodge (stalk breakage) as measured by either natural lodging or pushing the stalks and determining the percentage of plants that break below the ear.

**STW WLT** = **STEWART'S WILT** (*Erwinia stewartii*).

A 1 to 9 visual rating indicating the resistance to Stewart's Wilt. A higher score indicates a higher resistance.

TASBRN = TASSEL BRANCHES.

This is the number of primary tassel branches.

TAS SZ = TASSEL SIZE.

A 1 to 9 visual rating was used to indicate the relative size of the tassel. The higher the rating the larger the tassel.

TAS WT = TASSEL WEIGHT.

This is the average weight of a tassel (grams) just prior to pollen shed.

TEX EAR = EAR TEXTURE.

A 1 to 9 visual rating was used to indicate the relative hardness (smoothness of crown) of mature grain. A 1 would be very soft (extreme dent) while a 9 would be very hard (flinty or very smooth crown).

TILLER = TILLERS.

A count of the number of tillers per plot that could possibly shed pollen was taken. Data are given as a percentage of tillers: number of tillers per plot divided by number of plants per plot.

TST WT = TEST WEIGHT (UNADJUSTED).

The measure of the weight of the grain in pounds for a given volume (bushel).

YLD SC = YIELD SCORE.

A 1 to 9 visual rating was used to give a relative rating for yield based on plot ear piles. The higher the rating the greater visual yield appearance.

#### United States Department of Agriculture, Agricultural Marketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705

#### Objective Description of Variety Corn (Zea mays L.)

Name of Applicant (s)		Variety Seed Source	Variet	ariety Name or Temporary Designation				
Pioneer Hi-Bred In	ternational, Inc.	·		PH6WR				
A 13 (Church R N)	DED M. Cit. Cit. Ti C. 1		FOR OFFICIAL USE	T				
	RFD No., City, State, Zip Code and	Country	FOR OFFICIAL USE	<b>.</b> .				
7301 NW 62 <sup>nd</sup> Aver	nue, P.O. Box 85,	DI MARIE I	200100229					
Johnston, Iowa 50	131-0085		PVP0 Number	200100227				
				Right justify whole numbers by adding				
	ry. Completeness should be striven		ariety description. Traits	designated by an '*' are considered				
	e variety description and must be co							
	n conjunction with Munsell color co	····	es: describe #25 and #26					
01=Light Green	06=Pale Yellow	11=Pink	16=Pale Purple	21=Buff				
02=Medium Green	07≔Yellow	12=Light Red	17=Purple	22=Tan				
03=Dark Green	08=Yellow Orange	13=Cherry Red	18=Colorless	23=Brown				
04=Very Dark Green	09=Salmon	14=Red	19=White	24=Bronze				
05=Green-Yellow	10=Pink-Orange	15=Red & White	20=White Capped	25=Variegated (Describe) 26=Other (Describe)				
STANDARD INBRED CH	HOICES							
(Use the most similar (in b	ackground and maturity) of these to	make comparisons based on	grow-out trial data):					
Yellow Dent Families:		Yellow Dent (Unrelated):	Sweet Co	orn:				
Family Members		Co109, ND246,	C13, Io	wa5125, P39, 2132				
B14 CM105, A63	2, B64, B68	Oh7, T232,						
B37 B37, B76, H8	34	W117, W153R,	Popcorn:					
B73 N192, A679,	B73, NC268	W18BN	SG1533	s, 4722, HP301, HP7211				
C103 Mo17, Va102	2, Va35, A682							
Oh43 A619, MS71,	H99, Va26	White Dent:	Pipecorn	:				
WF9 W64A, A554	, A654, Pa91	C166, H105, Ky228	Mo15W	, Mo16W, Mo24W				

Groups on Lynx/Osborn/Grunst/98-99PVP

	SWR			T 04		. NI====
•	ntermediate types in Comments section):				ard Variety	y Name
2 1=Sweet	<u>VA26</u> .					
2. REGION WHERE	Standa	Standard Seed Source				
<u>5</u> 1=Northwe	st 2=Northcentral 3=Northeast 4=Southeast 5=	Southcentral		ļ ,	AMES 19	329
6=Southwe	st 7=Other Central Corn Belt, W United States				NIVILO TO	<u></u>
3. MATURITY (In R	egion of Best Adaptability; show Heat Unit formul	a in 'Comments' s	ection)			
DAYS HEAT U	NITS			DAYS	HEAT UN	ITS
<u>076</u> <u>1,440.0</u>	From emergence to 50% of plants in silk			<u>074</u>	<u>1,381.0</u>	
<u>076</u> <u>1.440.0</u>	From emergence to 50% of plants in pollen			<u>076</u>	<u>1,435.7</u>	
<u>003</u> <u>0.071.0</u>	From 10% to 90% pollen shed			<u>005</u>	<u>0,118.7</u>	
	From 50% silk to optimum edible quality			1		
	From 50% silk to harvest at 25% moisture					
4. PLANT:		Standard	Sample	:	Standard	Sampl
		Deviation	Size	Γ	Deviation	Size
207.7 cm Plant	t Height (to tassel tip)	<u>09.29</u>	<u>03</u>	236.3	<u>10.02</u>	<u>03</u> -
085.3 cm Ear l	leight (to base of top ear node)	08.02	<u>03</u>	077.7	<u>07.57</u>	<u>03</u>
015.9 cm Leng	th of Top Ear Internode	<u>00.46</u>	<u>03</u>	014.7	<u>01.10</u>	<u>03</u>
0.0 Average	Number of Tillers	<u>00.01</u>	<u>03</u>	0.0	00.00	<u>03</u>
	Number of Ears per Stalk	<u>00.13</u>	<u>03</u>	0.8	<u>00.10</u>	<u>03</u>
5 Anthocya	anin of Brace Roots: 1=Absent 2=Faint 3=Mode	rate 4=Dark 5=Ve	ery Dark	1		
5. LEAF:		Standard	Sample	:	Standard	Sample
		Deviation	Size		Deviation	Size
10.4 cm Width	of Ear Node Leaf	00.20	<u>03</u>	10.3	<u>00.64</u>	<u>03</u>
<u>78.9</u> cm Lengti	h of Ear Node Leaf	<u>01.60</u>	<u>03</u>	<u>83.5</u>	02.72	<u>03</u>
<u>06</u> Number	of leaves above top ear	<u>00.31</u>	<u>03</u>	<u>06</u>	<u>00.53</u>	<u>03</u>
	Leaf Angle (measure from 2nd leaf above ear is to stalk above leaf)	<u>03.62</u>	<u>03</u>	<u>16</u>	<u>03.86</u>	<u>03</u>
03 Leaf Colo	r (Munsell code) 5GY34			03	5G)	134
	ath Pubescence (Rate on scale from 1=none to 9	- =like peach fuzz)		1		
<del>-</del>	Waves (Rate on scale from 1=none to 9=many)			_		
<del>-</del>	nal Creases (Rate on scale from 1=none to 9=ma	ny)				
6. TASSEL:	<del>-</del>	Standard	Sample	ţ	Standard	Sampl
		Deviation	Size	ľ	Deviation	Size
10 Number o	f Primary Lateral Branches	<u>01.21</u>	<u>03</u>	<u>21</u>	<u>01.81</u>	<u>03</u>
31 Branch A	ngle from Central Spike	03.60	<u>03</u>	<u>35</u>	10.38	<u>03</u>
52.2 cm Tasse	Length (from top leaf collar to tassel tip)	<u>03.33</u>	<u>03</u>	<u>61.5</u>	03.30	<u>03</u>
6 Pollen Sh	ed (rate on scale from 0=male sterile to 9=heavy	shed)		Z		,
<del></del>	olor (Munsell code) 10RP38			<u>07</u>	<u>10\</u>	<u> </u>
01 Glume Co	olor (Munsell code) <u>5GY66</u>			<u>01</u>	<u>5G</u> `	<u>Y58</u>
1 Bar Glum	es (Glume Bands): 1=Absent 2=Present			1		1
Application Variety D	Data Page 1			Standar	d Variety	Data
, ,,				i	•	

Application	Variety Data	PH6WR	Page 2			Standard Va	riety Data
7a. EAR (	Unhusked Data):						
<u>11</u>	Silk Color (3 days	01 2.5GY86					
<u>03</u>	Fresh Husk Colo	<u>02</u> <u>5</u>	GY56				
<u>21</u>	Dry Husk Color (	65 days after 50% silkin	g) (Munsell code)		<u>5GY56</u> 5Y92		5Y8.52
<u>3</u>	Position of Ear at	t Dry Husk Stage: 1= Up	oright 2= Horizontal	3≃ Pendant	<del></del>	3	<del></del>
<u>5</u>	Husk Tightness (	Rate of Scale from 1≃ve	ery loose to 9=very	tight)		<u>6</u>	
<u>2</u>	Husk Extension (	(at harvest): 1=Short (ea	ırs exposed) 2=Med	ium (<8 cm)		3	
	3=Long (8-10 cm	beyond ear tip) 4=Very	Long (>10 cm)				
7b. EAR	(Husked Ear Data	):		Standard	Sample	Standard	Samp
				Deviation	Size	Deviation	Size
<u>16.7</u>	cm Ear Length			00.58	<u>03</u>	12.7 00.58	<u>03</u>
<u>41.3</u>	mm Ear Diamete	r at mid-point		<u>01.15</u>	<u>03</u>	40.0 01.73	<u>03</u>
<u>115.7</u>	gm Ear Weight			23.80	<u>03</u>	<u>82.0 14.11</u>	<u>03</u>
<u>17</u>	Number of Kerne	l Rows		00.58	<u>03</u>	<u>16.0</u> <u>00.00</u>	<u>03</u>
<u>2</u>	Kernel Rows: 1=l	ndistinct 2=Distinct				<u>2</u>	
<u>2</u>	Row Alignment: 1	l=Straight 2=Slightly Cu	rved 3=Spiral			1	
<u>06.7</u>	cm Shank Length	ı		00.58	<u>03</u>	<u>07.3</u> <u>00.58</u>	<u>03</u>
2	Ear Taper: 1=Slig	ht 2= Average 3=Extrer	ne			<u>2</u>	
8. KERNE	L (Dried)			Standard	Sample	Standard	Sampl
				Deviation	Size	Deviation	Size
<u>10.7</u> r	mm Kernel Length			<u>00.58</u>	<u>03</u>	09.7 00.58	<u>03</u>
<u>07.7</u> r	mm Kernel Width			00.58	<u>03</u>	<u>07.7</u> <u>00.58</u>	<u>03</u>
<u>05.0</u> г	mm Kernel Thickne	ess		00.00	<u>03</u>	04.0 00.00	<u>03</u>
22.3	% Round Kernels	(Shape Grade)		09.50	<u>03</u>	63.0 14.73	<u>03</u>
<u>1</u> A	Aleurone Color Pa	ttern: 1-Homozygous 2	=Segregating			1	_
<u>07</u> A	Aluerone Color (M	funsell code)		<u>10`</u>	YR7/14	<u>07</u> <u>2.</u>	5Y8/14
<u>07</u> H	Hard Endosperm (	Color (Munsell code)		<u>1.2</u>	5Y7/14	<u>07</u> 2.5	5Y8/14
<u>03</u> E	Endosperm Type:				1	<u>3</u>	1
	4=High Amylos	2=Extra Sweet (sh2) 3 e Starch 5=Waxy Starc 8=Super Sweet (se) 9=	h 6≍High Protein				
<u>25.3</u> g	·	Kernels (unsized samp	ole)	04.51	<u>03</u>	21.33 02.08	<u>03</u>
9. COB:	· · · · · · · · · · · · · · · · · · ·		_ <del>_</del>	Standard	Sample	Standar	d Sample
				Deviation	Size	Deviatio	· ·
<u>22.7</u> m	nm Cob Diameter	at mid-point		00.58	<u>03</u>	<u>24.0</u> <u>01.73</u>	<u>03</u>

PH6WR

Application Variety Data

Page 3

Standard Variety Data

	RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant);	4	
	if not tested; leave Race or Strain Options blank if polygenic):  Blights, Wilts, and Local Infection Diseases		
<u>6</u>	Anthracnose Leaf Blight (Colletotrichum graminicola) Common Rust (Puccinia sorghi) Common Smut (Ustilago maydis) Eyespot (Kabatiella zeae)	<u>5</u>	
<u>5</u>	Goss's Wilt (Clavibacter michiganense spp. nebraskense) Gray Leaf Spot (Cercospora zeae-maydis) Helminthosporium Leaf Spot (Bipolaris zeicola) Race	<u>3</u>	
7	Northern Leaf Blight (Exserohilum turcicum) Race———	2	
<u>6</u>	Southern Leaf Blight (Bipolaris maydis) Race ———— Southern Rust (Puccinia polysora)	<u>5</u>	
<u>5</u>	Stewart's Wilt (Erwinia stewartii) Other (Specify)	<u>5</u>	
B. Syster	nic Diseases		
<u>8</u>	Corn Lethal Necrosis (MCMV and MDMV) Head Smut (Sphacelotheca reiliana) Maize Chlorotic Dwarf Virus (MDV)	<u>8</u>	
<u>3</u>	Maize Chlorotic Mottle Virus (MCMV)  Maize Dwarf Mosaic Virus (MDMV)  Sorghum Downy Mildew of Corn (Peronosclerospora sorghi)  Other (Specify)——	4	
C. Stalk F	Rots		
<u>5</u>	Anthracnose Stalk Rot (Colletotrichum graminicola) Diplodia Stalk Rot (Stenocarpella maydis) Fusarium Stalk Rot (Fusarium moniliforme) Gibberella Stalk Rot (Gibberella zeae) Other (Specify) ———	<u>3</u>	
D. Ear an	d Kernel Rots		
<u>5</u> <u>6</u>	Aspergillus Ear and Kernel Rot (Aspergillus flavus) Diplodia Ear Rot (Stenocarpella maydis) Fusarium Ear and Kernel Rot (Fusarium moniliforme) Gibberella Ear Rot (Gibberella zeae) Other (Specify)———	<u>5</u> <u>6</u>	

Application Variety Data

Page 3

Standard Variety Data

PH6WR **Application Variety Data** Page 4 Standard Variety Data 11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); (leave blank if not tested): Banks grass Mite (Oligonychus pratensis) Corn Worm (Helicoverpa zea) Leaf Feeding Silk Feeding mg larval wt. Ear Damage Corn Leaf Aphid (Rhopalosiphum maidis) Corn Sap Beetle (Carpophilus dimidiatus European Corn Borer (Ostrinia nubilalis) 1st Generation (Typically Whorl Leaf Feeding) <u>7</u> <u>2</u> 2nd Generation (Typically Leaf Sheath-Collar Feeding) Stalk Tunneling cm tunneled/plant Fall Armyworm (Spodoptera fruqiperda) Leaf Feeding Silk Feeding mg larval wt. Maize Weevil (Sitophilus zeamaize Northern Rootworm (Diabrotica barberi) Southern Rootworm (Diabrotica undecimpunctata) Southwestern Corn Borer (Diatreaea grandiosella) Leaf Feeding Stalk Tunneling cm tunneled/plant Two-spotted Spider Mite (Tetranychus urticae) Western Rootworm (Diabrotica virgifrea virgifera) Other (Specify) -12. AGRONOMIC TRAITS: Staygreen (at 65 days after anthesis) (Rate <u>2</u> on a scale from 1=worst to excellent) % Dropped Ears (at 65 days after anthesis) % Pre-anthesis Brittle Snapping % Pre-anthesis Root Lodging Post-anthesis Root Lodging (at 65 days after anthesis) 12.9 0.0 5,122.6 Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture) 3,000.4 13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied): 0 RFLP's 0 RAPD's 1 Isozymes COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D): Application Variety Data Page 4 Standard Variety Data

Please note the data presented in Exhibit C, "Objective Description of Variety," are collected primarily at Johnston and Ankeny, Iowa. The data in Exhibit B are from comparisons of inbreds grown in the same tests in the adapted growing area of PH6WR and in Johnston and Ankeny, IA. The data in Tables 1A and 1B are from paired comparison t-tests collected in Johnston and Ankeny, IA. These traits collectively show distinct differences between the two varieties.

The data collected in exhibit C was collected in 2000 for page 1 and 2. There were 3 different planting dates planted for these trials. There are environmental factors that differ from planting date to planting date. Environmental temperature and precipitation differences during the vegetative and grain fill periods can impact plant and grain traits, and are a source of variability. The environmental conditions described above could result in larger standard deviations. The variation associated with environment to environment is normally higher than the variation associated within locations.

• The second of								
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in account 1974 (5 U. S. C. 552a) and the Paperwork	ordance with the Privacy Act of k Reduction Act (PRA) of 1995.						
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to deterr certificate is to be Issued (7 U.S.C. 2421). until certificate is issued (7 U.S.C. 2426).	nine if a plant variety protection Information is held confidential						
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME						
PIONEER HI-BRED INTERNATIONAL, INC.	OR EXPERIMENTAL NUMBER	PH6WR						
4 .ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (include area code)						
7301 NW 62 <sup>nd</sup> AVENUE	515-270-4051	515-253-2125						
P.O.BOX 85 JOHNSTON, IA 50131-0085	7. PVPO NUMBER	100229						
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate by	lock. If no, please explain: 🛛 YES	□ NO.						
9. Is the applicant (individual or company) a U.S. national or U.S. based compar	ny? 🛛 YES 🔲 NO							
If no, give name of country								
10. Is the applicant the original owner?	olease answer <u>one</u> of the following:							
a. If original rights to variety were owned by individual(s), is(are) the orig	ginal owner(s) a U.S. national(s)?							
☐ YES ☐ NO if no, give name of country								
b. If original rights to variety were owned by a company(ies), is(are) the	original owner(s) a U.S. based company?							
☑ YES ☐ NO If no, give name of country								
11. Additional explanation on ownership (if needed, use reverse for extra space):		<del></del>						
PH6WR is owned by Pioneer Hi-Bred International, Inc.								
· · · · · · · · · · · · · · · · · · ·		·						
PLEASE NOTE:		·-··						
Plant variety protection can be afforded only to owners (not licensees) who meet one of	the following criteria:							
1. If the rights to the variety are owned by the original breeder, that person must be a Which affords similar protection to nationals of the U.S. for the same genus and sp	a U.S. national, national of a UPOV member connectes.	ountry, or national of a country						
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV memi country, or owned by national of a country which affords similar protection to nationals of the U.S. for the same genus and species.								
3. If the applicant is an owner who is not the original owner, both the original owner	and the applicant must meet one of the above c	riteria.						
The original breeder/owner may be the individual or company who directed final breeding	ng. See section 41(a)(2) of the Plant Variety Pr	rotection Act for definition.						

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to compete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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